

PAENT COOPERATION TREATY
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From the INTERNATIONAL SEARCHING AUTHORITY

MAR 03 2000

PCT

ALAN M. GORDON

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

To:
American Home Products Corporation
Patent Law Department - 2B
Attn. GORDON, A.
One Campus Drive
Parsippany, New Jersey, 07054
UNITED STATES OF AMERICA

Date of mailing
(day/month/year)

25/02/2000

Applicant's or agent's file reference
33377-00/PCT

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US 99/09486

International filing date
(day/month/year)

29/04/1999

Applicant

RECEIVED
DUE DATE
BY:

AMERICAN CYANAMID COMPANY et al.

4/25/00
2000 2/13/00

1. The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

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PATENT LAW DEP

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Further action(s):** The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Andria Overbeeke-Siepkes
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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended
claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

P. ENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 33377-00/PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 99/09486	International filing date (day/month/year) 29/04/1999	(Earliest) Priority Date (day/month/year) 29/04/1998
Applicant AMERICAN CYANAMID COMPANY et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of **9** sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

2a

None of the figures.

INTERNATIONAL SEARCH REPORT

Int. application No.

PCT/US 99/09486

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 9-14, 29 and 30 is(are) directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See additional sheet.

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1,15 (all partially); 2,7,8,9,13 (all completely)

A vaccine composition comprising isolated and purified recombinantly-expressed pilin protein from the species *Neisseria gonorrhoeae*, further comprising an adjuvant, diluent or carrier, the adjuvant being selected from the group consisting of aluminium hydroxide, aluminium phosphate, Stimulon QS-21, 3-O-deacylated monophosphoryl lipid A, 11-12, and wild-type or mutant cholera toxin, and methods of immunisation and preparation.

2. Claims: 1,3,10,12,15 (all partially); 4 (completely)

A vaccine composition comprising isolated and purified recombinantly-expressed class I pilin protein from the species *Neisseria meningitidis*, and methods of immunisation and preparation.

3. Claims: 1,3,10,12,15 (all partially); 5 (completely)

A vaccine composition comprising isolated and purified recombinantly-expressed class II pilin protein from the species *Neisseria meningitidis*, and methods of immunisation and preparation.

4. Claims: 1,15 (all partially); 6,11,14,
16-42 (all completely)

- A vaccine composition comprising isolated and purified recombinantly-expressed chimeric pilin protein of *Neisseria gonorrhoeae* and class I *Neisseria meningitidis* having the amino acid sequence 1-167 (or 8-167 after maturation) of SEQ ID NO:2 or a biologically equivalent amino acid sequence, and methods of immunisation and preparation.

Isolated and purified encoding nucleic acids and variants (SEQ ID NO:1), plasmids, host cells, methods of production , and the isolated and purified chimeric pilin.

- A vaccine composition comprising isolated and purified recombinantly-expressed chimeric pilin protein of *Neisseria gonorrhoeae* and class II *Neisseria meningitidis* having the amino acid sequence 1-170 (or 8-170 after maturation) of SEQ ID NO:4 or a biologically equivalent amino acid sequence, and methods of immunisation and preparation.

Isolated and purified encoding nucleic acids and variants (SEQ ID NO:3), plasmids, host cells, methods of production , and the isolated and purified chimeric pilin.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/09486A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/31 C12N19/2 C07K14/22 C07K19/00 C1K39/095

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C12N C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BUCHANAN, T.M. ET AL: "Development of a vaccine to prevent gonorrhea. BACTERIAL VACCINES." , SEMIN. INFECT. DIS., (1982) PP. 160-164. ISBN: 0-86577-020-0. , U.S. PUBLIC HEALTH SERV. HOSP., SEATTLE, WA 98195, USA XP002118827 page 160, right-hand column -page 161, left-hand column page 162, right-hand column, line 26-33 ---	1,2,7-9, 15
Y	page 160, right-hand column -page 161, left-hand column page 162, right-hand column, line 26-33 ---	7,8,13
X	US 4 443 431 A (BUCHANAN THOMAS M ET AL) 17 April 1984 (1984-04-17) column 2, line 49-55	1,2,7-9, 15
Y	column 7, line 54 -column 8, line 8 table 2 ---	7,8,13
		-/-
		-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

10 February 2000

Date of mailing of the international search report

25.02.00

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

van de Kamp, M

INTERNATIONAL SEARCH REPORT

Interr	nal Application No
PCT/US 99/09486	

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 94 00153 A (GARCON JOHNSON NATHALIE MARIE ;PRIEELS JEAN PAUL (BE); SMITHKLINE) 6 January 1994 (1994-01-06) the whole document page 5, line 9 claim 6 ---	7,8
Y	GUPTA R K ET AL: "Adjuvants for human vaccines--current status, problems and future prospects" VACCINE, vol. 13, no. 14, 1 October 1995 (1995-10-01), page 1263-1276 XP004057427 ISSN: 0264-410X abstract page 1264, left-hand column, paragraph 2 page 1269, left-hand column, line 4-6 page 1271, left-hand column ---	7,8
Y	MARINARO ET AL.: "Interleukin-12 alters helper T-cell subsets and antibody profiles induced by the mucosal adjuvant cholera toxin" ANN N Y ACAD SCI, vol. 795, 31 October 1996 (1996-10-31), page 361-365 XP002117955 page 362, line 3-6 page 362, paragraph 3 -page 363, paragraph 1 page 364, paragraph 2 ---	7,8
Y	WO 85 04654 A (SCRIPPS CLINIC RES) 24 October 1985 (1985-10-24) example 5 ---	13
X	WO 94 08013 A (OREGON STATE) 14 April 1994 (1994-04-14) page 3-6 ---	1,3,4, 10,12,15 5,6,11, 14, 28-30, 33-42
Y	WO 93 11791 A (OREGON STATE) 24 June 1993 (1993-06-24) page 5-7 ---	1,3,4, 10,12,15 5,6,11, 14, 28-30, 33-42

INTERNATIONAL SEARCH REPORT

Interr. Application No.
PCT/US 99/09486

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	POTTS & SAUNDERS: "Nucleotide sequence of the structural gene for class I pilin from <i>Neisseria meningitidis</i> : homologies with the <i>pile</i> locus of <i>Neisseria gonorrhoeae</i> " MOLECULAR MICROBIOLOGY, vol. 2, no. 5, 1988, pages 647-653, XP002117231 the whole document figure 3 ---	16-27
Y	VIRJI ET AL. : "Pilus-facilitated adherence of <i>Neisseria meningitidis</i> to human epithelial cells: modulation of adherence phenotype occurs concurrently with changes in primary amino acid sequence and the glycosylation status of pilin" MOLECULAR MICROBIOLOGY, vol. 10, no. 5, December 1993 (1993-12), pages 1013-1028, XP000867896 abstract figure 6 ---	6,11,14
X	AHO ET AL.: "Characterization of a class II pilin expression locus from <i>Neisseria meningitidis</i> : evidence for increased diversity among pilin genes in pathogenic <i>Neisseria</i> species" INFECTION & IMMUNITY, vol. 65, no. 7, July 1997 (1997-07), pages 2613-2620, XP002129888 cited in the application abstract page 2617 -page 2618 figures 2,3 table 1 ---	31,32
Y	EP 0 049 945 A (BACTEX INC) 21 April 1982 (1982-04-21) example 7 claims 3,4,7 ---	5,28-30, 33-42
A	PERRY ET AL.: "Structural analysis of the <i>pile</i> region of <i>Neisseria gonorrhoeae</i> P9" GENE, vol. 60, 1987, pages 85-92, XP002117230 abstract figure 3 ---	1,2,7-9, 13,15
		-/-

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/09486

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SEIFERT: "Questions about gonococcal pilus phase- and antigenic variation" MOLECULAR MICROBIOLOGY, vol. 21, no. 3, 1996, pages 433-440, XP002117233 the whole document page 437, right-hand column ---	1,2
A	NASSIF ET AL: "Type-4 pili and meningococcal adhesiveness" GENE, vol. 192, no. 1, 11 June 1997 (1997-06-11), page 149-153 XP004115699 ISSN: 0378-1119 abstract page 151-152, paragraphs 4,6 ---	1,3-5
A	MAKRIDES S C: "Strategies for Achieving High-Level Expression of Genes in Escherichia coli" MICROBIOLOGICAL REVIEWS, US, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, DC, vol. 60, no. 3, 1 September 1996 (1996-09-01), pages 512-538, XP002095235 ISSN: 0146-0749 page 512 -page 518, left-hand column page 524 ---	6,18-28, 33-42
A	CARRICK C S ET AL: "The normally silent sigmapromoters upstream of the <i>pile</i> genes of both <i>Neisseria gonorrhoeae</i> and <i>Neisseria meningitidis</i> are functional when transferred to <i>Pseudomonas aeruginosa</i> " GENE: AN INTERNATIONAL JOURNAL ON GENES AND GENOMES, GB, ELSEVIER SCIENCE PUBLISHERS, BARKING, vol. 198, no. 1-2, 1 October 1997 (1997-10-01), pages 89-97, XP004116043 ISSN: 0378-1119 abstract figure 1 ---	6
A	WO 92 13871 A (UNIV WASHINGTON) 20 August 1992 (1992-08-20) the whole document ---	1
A	WO 96 31618 A (UNIV NORTH CAROLINA) 10 October 1996 (1996-10-10) the whole document ---	1
		-/-

INTERNATIONAL SEARCH REPORT

Interr'nal Application No
PCT/US 99/09486

C.(Continuation) DOCUMENTS CONSIDERED RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 474 313 A (CIGB) 11 March 1992 (1992-03-11) the whole document -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/09486

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4443431	A 17-04-1984	NONE	

WO 9400153	A 06-01-1994	AP 408 A AT 156710 T AU 1785597 A AU 661404 B AU 4326393 A AU 676166 B AU 4326493 A CA 2138996 A CA 2138997 A CN 1086142 A CN 1092812 A CZ 9403296 A DE 69313134 D DE 69313134 T DK 671948 T WO 9400575 A EP 0671948 A EP 0649470 A EP 0761231 A ES 2108278 T FI 946064 A GR 3025184 T HU 71208 A IL 106109 A JP 7508512 T JP 7508648 T MX 9303771 A MX 9303773 A NO 945003 A NZ 253137 A NZ 253138 A PL 170980 B SG 49909 A SI 9300335 A SK 159294 A US 5750110 A	27-09-1995 15-08-1997 19-06-1997 20-07-1995 24-01-1994 06-03-1997 24-01-1994 06-01-1994 06-01-1994 04-05-1994 28-09-1994 16-08-1995 18-09-1997 26-02-1998 01-09-1997 06-01-1994 20-09-1995 26-04-1995 12-03-1997 16-12-1997 22-02-1995 27-02-1998 28-11-1995 18-02-1997 21-09-1995 28-09-1995 31-05-1994 31-05-1994 23-12-1994 27-08-1996 26-10-1995 28-02-1997 15-06-1998 31-12-1993 09-08-1995 12-05-1998

WO 8504654	A 24-10-1985	AU 582358 B AU 4159085 A DK 565285 A EP 0177583 A FI 854839 A,B, IL 74829 A JP 61501777 T NO 854903 A NZ 211715 A ZA 8502629 A	23-03-1989 01-11-1985 05-12-1985 16-04-1986 05-12-1985 28-02-1989 21-08-1986 04-02-1986 27-01-1989 27-11-1985

WO 9408013	A 14-04-1994	AU 5403594 A	26-04-1994

WO 9311791	A 24-06-1993	AU 3416693 A	19-07-1993

EP 0049945	A 21-04-1982	EP 0048422 A EP 0048881 A JP 1932813 C JP 6062432 B	31-03-1982 07-04-1982 26-05-1995 17-08-1994

INTERNATIONAL SEARCH REPORT

Inform [redacted] on patent family members

International Application No

PCT/US 99/09486

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0049945	A	JP 57081415 A US 4769240 A	21-05-1982 06-09-1988
WO 9213871	A	20-08-1992	AU 1411492 A US 5834591 A
WO 9631618	A	10-10-1996	AU 5537096 A CA 2217522 A EP 0830456 A JP 11503322 T
EP 0474313	A	11-03-1992	CU 22302 B AT 152175 T AU 657487 B AU 8368391 A CA 2050749 A DE 69125769 D DE 69125769 T ES 2103295 T FI 914129 A GR 3024127 T JP 6169779 A US 5286484 A

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